



www.emeraldnw.com

November 28, 2007



Recycling
& Recovery

Marine &
Industrial Cleaning

Recycled Products

Waste Treatment
& Disposal

Automotive Fluids
Management

Construction
Services

Transportation
Services

Vacuum Truck
Services

Portable Storage

EPA Region 10
Investigations and Engineering Unit (OEA-95)
1200 Sixth Avenue
Seattle WA 98101
Attn: Dan Duncan

RE: Emerald Recycling
Report of PCB Contamination and De-Contamination
Iconco of Seattle

Dear Mr. Duncan;

As I mentioned in my email to you dated July 10, 2007, the Emerald Recycling facility located at 1500 Airport Way S. in Seattle, Washington (Emerald) received a shipment of oil contaminated with polychlorinated biphenyls (PCBs) on June 29, 2007. The contamination was discovered during routine PCB testing of bulked oil at the Emerald facility. The following is being provided as documentation of how the source of the contamination was determined, the decontamination procedures that were undertaken by Emerald, and the proper disposal of the contaminated oil as well as tank and equipment rinseates.

Testing by the Emerald laboratory showed PCBs detected in the Emerald tank of consolidated oil. Per standard procedure, once PCBs are detected in the tank, the generator retain samples for the tank are then tested. Internal testing by the Emerald laboratory showed that the retain from Iconco of Seattle, located at 5409 Ohio Ave., Seattle WA 98134 had a significant concentration of PCBs. The retain was sent out for third-party PCB testing by method 8082 at Severn Trent Laboratory (STL, now Test America). STL reported a concentration of Arochlor 1016 at 2600 ppm in the retain from Iconco of Seattle.

Once proper disposal and transportation were arranged, Emerald pumped the contaminated oil out of the storage tank to a tanker truck. Contaminated equipment was washed with water and the storage tank and transport tank were decontaminated with diesel per the enclosed PCB Tank Decontamination and Sampling Plan. The waste diesel and wash water generated during the

USEPA REG



0001029

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decontamination process were consolidated with the original PCB-contaminated oil in the tanker truck. All liquids were shipped as TSCA regulated waste on manifest #000263593FLE to Clean Harbors (copy enclosed).

If you have any questions regarding this report, or need additional information, please feel free to contact me at the numbers below.

Sincerely,



Sheila Smith, Environmental Coordinator
Emerald Services, Inc.
(206) 832-3204 (Office)
(253) 370-7912 (Cell)
(206) 832-3304 (fax)
sheilas@emeraldnw.com

cc: APW Facility File

Enclosures: Emerald PCB Detection & Tracking Sheet
Severn Trent Analytical Report
Emerald PCB Tank Decontamination and Sampling Plan
Emerald PCB Swabs Analysis Report
Manifest #000263593FLE with Certificate of Treatment/Disposal



Quality control data available upon request

-PCB Detection & Tracking-

Flow Chart, and analytical results for tracing source contamination of inbound waste oil.

Analytical Method used: EPA 8082 (prep method 3580)

PCB's screened are Aroclors 1242/1248/1016/1232, Aroclor 1254, and Aroclor 1260

Page 1 of 2

Initial Contamination: Tank ID#:LS4

Date Sampled:6-30-07

Emerald Lab ID #: 070630.0D

PCB* results: Aroclor1016 82 ppm

Date Analyzed6-30-07

By: Leslie Embrey

Testing of trucks pumped into Contaminated Tank:

Truck: Joe's	Emerald Lab ID #: 070630.0I-1	PCB results: ND ** see noteppm
Truck: Tylers	Emerald Lab ID #: 070630.0I-2	PCB results: ND ** see noteppm

Notes: Trucks sampled incorrectly, therefore ALL retains for both drivers were tested. The samples listed below are from the driver with the set of retains containing the contaminated sample. All Tylers retains were ND.

Date Analyzed6-30-07

By: Leslie Embrey

Testing of Individual Retain samples for the contaminated truck's route:

Emerald Lab ID #:070702.0M-1 PCB results: ND	Retain ID: Good Chevrolet	BOL#:311087
Emerald Lab ID #:070702.0M-2 PCB results: ND	Retain ID: Renton Honda	BOL#:311088
Emerald Lab ID #:070702.0M-3 PCB results: ND	Retain ID: Formula 1	BOL#:311089
Emerald Lab ID #:070702.0M-4 PCB results: ND	Retain ID: Cendent Car Rentals	BOL#:311090
Emerald Lab ID #:070702.0M-5 PCB results: ND	Retain ID: Kenworth NW	BOL#:311091

Testing of Individual Retain samples for the contaminated truck's route (cont):

Emerald Lab ID #:070702.0M-6 PCB results: ND	Retain ID: ASGI	BOL#:311092
Emerald Lab ID #:070702.0M-7 PCB results: ND	Retain ID: Vaqueous Auto	BOL#:311093
Emerald Lab ID #:070702.0M-8 PCB results: ND	Retain ID: Quick Lube	BOL#:311094
Emerald Lab ID #:070702.0M-9 PCB results: Aroclor 1016 > 2000 ppm	Retain ID: Iconco	BOL#:311095
Emerald Lab ID #:070702.0M-10 PCB results: Aroclor 1016 38.9 ppm	Retain ID: Boyer Logistic	BOL#:311096

(* retain probably cross contaminated from previous sample*)

Analyst: Leslie Embrey Date:7-2-07

Contaminated Retain sample was sent to outside lab for PCB verification, per EMS.

THIS IS NOT AN INVOICE

Dispatch: Tel. (206) 832-3100 or 1-888-832-3008

Corporate Office: 9010 E. Marginal Way South Suite 200, Seattle, WA 98108 TIN # 91-1578671

311095

Bill of Lading

Facilities:

Check All Boxes That Apply

☐ 1500 Airport Way South
Seattle, WA 98134
EPA ID#WAD058367152

☐ 3808 North Sullivan #N-5
Spokane, WA 99216
EPA ID#WAH000012161

☐ 2450 South 800 West
Salt Lake City, UT 84119
EPA ID#UTR000008201

☐ 1825 Alexander Avenue
Tacoma, WA. 98421
EPA ID#WAD981769110

☐ 1300 West 12th Street
Vancouver, WA 98660
EPA ID#WAD068794387

☐ 900 Phillips Street
Missoula, MT. 59802
EPA ID#MTD982590440

Manifest

☐ 2222 Boulder Avenue
Helena, MT 59604
EPA ID#MTR000005454
Account Name: Iconco of SeattleDate: 6/29/87Site Address: 5909 OHIO AV

Billing Address: _____

City: Seattle

City: _____

State & Zip: 98134

State & Zip: _____

Driver: JoeEquip No.: 775Route Number.: 201

Other: _____

Customer Phone Number: 763 0900Customer Contact: Joe

P.O. Number: _____

Next Service Date: 6/29

Qty/Gal	Item	Description	Profile #	Unit Price	Amount
500	UO	Used Oil (Not USDOT Regulated)	G00505		
	BFU	Used Brake Fluid	G02907		
	CHLOR	Chlor D Tect™/ HH <u>Pass</u> <u>Fail</u>			
	MF	Off Spec Fuel	G02901		
	OW	Oil/Water Mixture (Not USDOT Reg)	G00501		
	OWS	Oil/Water Sludge			
	AMU	Used Absorbent Pads	G00504		
	OF100	Used Oil Filters (No Gasket) - Crushed	G04714		
	OF300	Used Oil Filters (No Gasket) - Uncrushed	G04715		
	AFU	Used Anti-Freeze (Recycling)			
		Non-Regulated Material, Spent Antifreeze (for recycle)			
	PWS	Partwasher Service MOD/COM			
	US	Used Solvent (LQG MANIFEST)			
		Flammable Liquids n.o.s. (benzene, lead), 3, UN1993, PG-II, ERG #128			
	AFN *	Antifreeze, New 100%, 50/50 R/C			
	AM *	New Absorbent Pads			
	SERV	Service Fee			
	TT *	Truck/ Operator Time			
		Subtotal			
		* Sales Tax (%)			
		Total			

I hereby declare that the contents of the consignment are fully and accurately described on the above Bill of Lading by proper DOT shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to 49 CFR. I further declare that this material is not regulated as a hazardous waste, dangerous waste, or PCB waste nor mixed with a hazardous waste, dangerous waste, or PCB waste under WAC 173-303 or 40CFR Part 261, or 40CFR Part 279. If contents are used oil, as generator, I hereby certify to the best of my knowledge that this oil is refined from crude oil, used, and as a result of such use is contaminated by physical or chemical impurities that resulted only from processes that can be attributed to used oil operations. Generator agrees to indemnify and hold harmless Emerald Services, Inc. or its subsidiary for any damages, costs, attorneys, and expert fees arising out of or in any way related to a breach of the above certifications.

Chem-Tel, Inc. 24 Hour Emergency Response Line 1-800-424-9300

Customer Signature: [Signature]Date: 6-29-07

STL

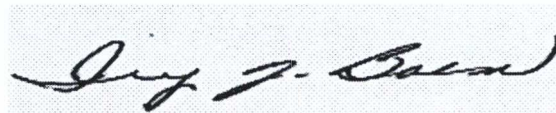
ANALYTICAL REPORT

Job Number: 580-6418-1

Job Description: PCB

For:
Emerald Services
9010 E Marginal Way S
Suite 200
Seattle, WA 98108

Attention: Leslie Embrey



Ivy J Bolm
Project Manager I.
ibolm@stl-inc.com
07/05/2007

cc: Jon Skinner

Project Manager: Ivy J Bolm

STL Seattle is a part of Severn Trent Laboratories, Inc.

This report is issued solely for the use of the person or company to whom it is addressed. Any use, copying or disclosure other than by the intended recipient is unauthorized. If you have received this report in error, please notify the sender immediately at 253-922-2310 and destroy this report immediately.

Severn Trent Laboratories, Inc.

STL Seattle 5755 8th Street East, Tacoma, WA 98424
Tel (253) 922-2310 Fax (253) 922-5047 www.stl-inc.com

METHOD SUMMARY

Client: Emerald Services

Job Number: 580-6418-1

Description	Lab Location	Method	Preparation Method
Matrix: Waste			
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	STL SEA	SW846 8082	
Waste Dilution	STL SEA		SW846 3580A

LAB REFERENCES:

STL SEA = STL Seattle

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986
And Its Updates.

SAMPLE SUMMARY

Client: Emerald Services

Job Number: 580-6418-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
580-6418-1	070702-OM1-Oil Retain from BOL#311095	Waste	07/02/2007 0000	07/03/2007 1300
580-6418-2	070702-OM2-Oil Retain from BOL#311096	Waste	07/02/2007 0000	07/03/2007 1300

Analytical Data

Client: Emerald Services

Job Number: 580-6418-1

Client Sample ID: 070702-OM1-Oil Retain from BOL#311095

Lab Sample ID: 580-6418-1

Date Sampled: 07/02/2007 0000

Client Matrix: Waste

Date Received: 07/03/2007 1300

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082

Analysis Batch: 580-20231

Instrument ID: SEA034

Preparation: 3580A

Prep Batch: 580-20195

Lab File ID: PCB8578.D

Dilution: 100

Initial Weight/Volume: 0.2097 g

Date Analyzed: 07/05/2007 1537

Final Weight/Volume: 10 mL

Date Prepared: 07/05/2007 0811

Injection Volume:

Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
PCB-1016		2600		48
PCB-1221		ND		48
PCB-1232		ND		48
PCB-1242		ND		48
PCB-1248		ND		48
PCB-1254		ND		48
PCB-1260		ND		48
Surrogate		%Rec		Acceptance Limits
Tetrachloro-m-xylene		105	D	45 - 155
DCB Decachlorobiphenyl		200	X D	50 - 150

Analytical Data

Client: Emerald Services

Job Number: 580-6418-1

Client Sample ID: 070702-OM2-Oil Retain from BOL#311096

Lab Sample ID: 580-6418-2

Date Sampled: 07/02/2007 0000

Client Matrix: Waste

Date Received: 07/03/2007 1300

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Method: 8082

Analysis Batch: 580-20231

Instrument ID: SEA034

Preparation: 3580A

Prep Batch: 580-20195

Lab File ID: PCB8577.D

Dilution: 1.0

Initial Weight/Volume: 0.2097 g

Date Analyzed: 07/05/2007 1514

Final Weight/Volume: 10 mL

Date Prepared: 07/05/2007 0811

Injection Volume:

Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
PCB-1016		39		0.48
PCB-1221		ND		0.48
PCB-1232		ND		0.48
PCB-1242		ND		0.48
PCB-1248		ND		0.48
PCB-1254		ND		0.48
PCB-1260		ND		0.48
Surrogate		%Rec		Acceptance Limits
Tetrachloro-m-xylene		64		45 - 155
DCB Decachlorobiphenyl		50		50 - 150

QUALITY CONTROL RESULTS

Quality Control Results

Client: Emerald Services

Job Number: 580-6418-1

Method Blank - Batch: 580-20195

Method: 8082

Preparation: 3580A

Lab Sample ID: MB 580-20195/3-A

Client Matrix: Waste

Dilution: 1.0

Date Analyzed: 07/05/2007 1339

Date Prepared: 07/05/2007 0811

Analysis Batch: 580-20231

Prep Batch: 580-20195

Units: mg/Kg

Instrument ID: SEA034

Lab File ID: PCB8573.D

Initial Weight/Volume: 0.2 g

Final Weight/Volume: 10 mL

Injection Volume:

Column ID: PRIMARY

Analyte	Result	Qual	RL
PCB-1016	ND		0.50
PCB-1221	ND		0.50
PCB-1232	ND		0.50
PCB-1242	ND		0.50
PCB-1248	ND		0.50
PCB-1254	ND		0.50
PCB-1260	ND		0.50

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	85	45 - 155
DCB Decachlorobiphenyl	62	50 - 150

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Emerald Services

Job Number: 580-6418-1

**Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 580-20195**

**Method: 8082
Preparation: 3580A**

LCS Lab Sample ID: LCS 580-20195/4-A
Client Matrix: Waste
Dilution: 1.0
Date Analyzed: 07/05/2007 1402
Date Prepared: 07/05/2007 0811

Analysis Batch: 580-20231
Prep Batch: 580-20195
Units: mg/Kg

Instrument ID: SEA034
Lab File ID: PCB8574.D
Initial Weight/Volume: 0.2 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 580-20195/5-A
Client Matrix: Waste
Dilution: 1.0
Date Analyzed: 07/05/2007 1426
Date Prepared: 07/05/2007 0811

Analysis Batch: 580-20231
Prep Batch: 580-20195
Units: mg/Kg

Instrument ID: SEA034
Lab File ID: PCB8575.D
Initial Weight/Volume: 0.2 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
PCB-1016	64	64	57 - 128	1	8		
PCB-1260	65	68	65 - 132	3	8		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
Tetrachloro-m-xylene	85		84		45 - 155		
DCB Decachlorobiphenyl	59		60		50 - 150		

Calculations are performed before rounding to avoid round-off errors in calculated results.



EMERALD CONTACT: _____

8232

PO# ER-10293 6418

CONFIRMING ANALYSIS ONLY: INFORMATION ATTACHED	CHARACTERIZE FOR DISPOSAL	IGNITABILITY CORROSIVITY REACTIVITY D001-D003	D-LISTED METALS BY TCLP D-004-D011	D-LISTED PESTICIDES AND HERBISIDES BY TCLP D-012-D017	D-LISTED ORGANICS D-018-D043	F-LISTED ORGANICS F001-F005	OTHER (PLEASE SPECIFY)
---------------------------------------------------------	------------------------------	--------------------------------------------------------	---------------------------------------------	----------------------------------------------------------------	------------------------------------	-----------------------------------	---------------------------

[illegible]

	SIGNATURE	PRINTED NAME	COMPANY NAME	TIME / DATE	SPECIAL INSTRUCTIONS / COMMENTS
RELINQUISHED BY	<i>Leslie Embrey</i>	Leslie Embrey	Emerald Readyz	7/3/02	email results to Jon Skinner & Leslie Embrey Thanks!
RECEIVED BY	<i>Khese</i>	Khese	Best America	7/3/02	
RELINQUISHED BY					
RECEIVED BY					
RELINQUISHED BY					
RECEIVED BY					

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Emerald Services

Job Number: 580-6418-1

Login Number: 6418

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	In Box
Cooler Temperature is acceptable.	NA	
Cooler Temperature is recorded.	NA	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	NA	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

PCB TANK DECONTAMINATION AND SAMPLE PLAN

This PCB Tank Decontamination and Sample Plan (Plan) outlines the steps to be taken when decontaminating a tank that has contained TSCA contaminated oil. It may also be used to decontaminate a tank containing lower levels of PCB contamination.

The first step of decontamination is a thorough rinsing/flushing of the tank with diesel fuel (kerosene may also be used). The tank must be rinsed a minimum of three times. Each rinse must use a volume of diesel equivalent to approximately 10 percent of the container capacity.

Following the tank rinsing, swab samples must be taken of the tank interior and inlet and outlet piping. The attached diagram shows a typical tank shape. For swab sampling, the tank is divided into six sections: north wall, south wall, east wall, west wall, floor, and ceiling. For each section, a template of approximately 10cm x 10cm grid is used to identify sample locations. Take inlet/outlet swabs in a circular sweep of the tube. A gauze pad treated with hexane is used for swiping each point within the sample grid. Each swipe taken within a section is composited for PCB analysis. A total of 6 composite samples will be needed. However this number will increase to include any inlet and outlet piping.

The tank is considered to be decontaminated if all swipe sample results are below $10\mu\text{g}/100\text{cm}^2$. If any results are above $10\mu\text{g}/100\text{cm}^2$, the tank must be rinsed and re-swiped until all results are below the $10\mu\text{g}/100\text{cm}^2$ limit.



Analysis Report Form

Sample Identification: PCB Wipes for LS4

Contact Person: Bill DeNike

Seattle Lab ID#:070730.0M (1-6)

NOTE: All units are in ug/100cm² unless otherwise specified

Parameter: PCB* wipe test

*Aroclors screened: Aroclors 1242/1248/1016/1232, Aroclor 1254 and Aroclor 1260

By Method 8082

Samples are run on a Hewlett Packard 5890 Gas Chromatograph

Project Description: PCB wipes for container #LS4 decon.

Sample	Results	MDL	Quality Control
			Surrogate recovery (decachlorobiphenol):
North Wall	< 10	10.0 ug/100cm ²	107
South Wall	< 10	10.0 ug/100cm ²	92
Front Wall	< 10	10.0 ug/100cm ²	102
Rear Wall	< 10	10.0 ug/100cm ²	87
Top	< 10	10.0 ug/100cm ²	80
Floor	< 10	10.0 ug/100cm ²	80

Analyst: L. Embrey

Date:7-31-07

36453

DI1545027

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

000263593 FLE

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number WAD058367152		2. Page 1 of 1		3. Emergency Response Phone 1-800-424-9300		4. Manifest Tracking Number 000263593 FLE			
		5. Generator's Name and Mailing Address EMERALD RECYCLING SERVICES 9010 E. MARGINAL WAY S. SEATTLE, WA 98108 (206) 832-3090		Generator's Site Address (if different than mailing address) EMERALD RECYCLING SERVICES 1500 AIRPORT WAY S SEATTLE, WA 98134							
GENERATOR		6. Transporter 1 Company Name EMERALD SERVICES, INC.		U.S. EPA ID Number WAD058364647							
		7. Transporter 2 Company Name		U.S. EPA ID Number							
DESIGNATED FACILITY		8. Designated Facility Name and Site Address CLEAN HARBORS (ARAGONITE), LLC 11600 N. APTUS ROAD, EXIT 56 ARAGONITE, UT 84029 (801) 823-8100		U.S. EPA ID Number UTD991552177							
		Facility's Phone:									
TRANSPORTER INTL		9a. HM		9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt/Vol.	13. Waste Codes	
		1. NA3082, RQ, Hazardous waste, liquid, n.o.s. (LEAD, POLYCHLORINATED BIPHENYLS), 9, PG-III, RQ-1, HRR171				1		TT	28960	K	0008, TSCA
		2.									
		3.									
		4.									
DESIGNATED FACILITY		14. Special Handling Instructions and Additional Information a) CH144002B USED OIL CONTAMINATED T#300T		REPORT ANY 'RQ' DISCHARGE TO NATIONAL RESPONSE CENTER 800-424-8802, AND 911 EMERGENCY NUMBER OR LOCAL OPERATOR. EMERGENCY CONTACT: JON SKINNER (206) 832-3090							
		15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
DESIGNATED FACILITY		Generator's/Officer's Printed/Typed Name William K. DENIK		Signature <i>[Signature]</i>		Month Day Year 7 30 07					
		16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit: Date leaving U.S.:							
DESIGNATED FACILITY		17. Transporter Acknowledgment of Receipt of Materials		Transporter 1 Printed/Typed Name Tim Simon		Signature <i>[Signature]</i>		Month Day Year 7 30 07			
		Transporter 2 Printed/Typed Name		Signature		Month Day Year					
DESIGNATED FACILITY		18. Discrepancy									
		18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection		Manifest Reference Number:							
DESIGNATED FACILITY		18b. Alternate Facility (or Generator)		U.S. EPA ID Number							
		Facility's Phone:									
DESIGNATED FACILITY		18c. Signature of Alternate Facility (or Generator)		Month Day Year							
		19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
DESIGNATED FACILITY		1. H1040		2.		3.		4.			
		20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a									
DESIGNATED FACILITY		Printed/Typed Name Chelsi Miller		Signature <i>[Signature]</i>		Month Day Year 7 11 07					
		DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)									



LDR NOTIFICATION FORM

Generator EMERALD RECYCLINGManifest 000263592FLE

Pursuant to 40 CFR §268.7(a), I hereby notify that this shipment contains waste restricted under 40 CFR Part 268 Land Disposal Restrictions (LDR).

A. GENERAL WASTE NOTIFICATION

Form Line No.	Profile No.	EPA/WA Waste Codes & LDR Subcategories (if any) <i>List codes or use Attachment 1</i>	NWW	WW	Waste Constituent Notification <i>Check the "None" box or List Legend Constituent # or use</i>
1	CHI44002B	<u>D001, D008, TSCA</u> <input type="checkbox"/> Check if Attachment 1 has been used	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> None <input type="checkbox"/> Check if Attachment 2 has been used
2	CHI50552	<u>D008, TSCA</u> <input type="checkbox"/> Check if Attachment 1 has been used	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> None <input type="checkbox"/> Check if Attachment 2 has been used
3		 <input type="checkbox"/> Check if Attachment 1 has been used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> None <input checked="" type="checkbox"/> Check if Attachment 2 has been used
4		 <input type="checkbox"/> Check if Attachment 1 has been used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> None <input type="checkbox"/> Check if Attachment 2 has been used
5		 <input type="checkbox"/> Check if Attachment 1 has been used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> None <input type="checkbox"/> Check if Attachment 2 has been used
6		 <input type="checkbox"/> Check if Attachment 1 has been used		<input type="checkbox"/>	<input type="checkbox"/> None <input type="checkbox"/> Check if Attachment 2 has been used

B. HAZARDOUS DEBRIS NOTIFICATION

☐ This hazardous debris, as identified above on Line No(s). _____ is subject to the alternative treatment standards of 40 CFR §268.45.

The waste contains the following contaminants subject to treatment (check all that apply):

☐ Toxicity characteristic debris ☐ Debris contaminated with listed waste ☐ Cyanide reactive debris

C. CONTAMINATED SOIL NOTIFICATION & CERTIFICATION

☐ This contaminated soil, as identified above on Line No(s). _____ is subject to the alternative treatment standards of 40 CFR §268.49(c).

Complete the following: "I certify under penalty of law that I personally have examined this contaminated soil & it [☐ does / ☐ does not] contain listed hazardous waste & [☐ does / ☐ does not] exhibit a characteristic of hazardous waste & [☐ is subject to / ☐ complies with] soil treatment standards as provided by §268.49(c) or the universal treatment standards". Note: Constituents subject to treatment are any constituents listed in 40 CFR §268.48 Universal Treatment Standards that are reasonably expected to be present in any given volume of contaminated soil, except fluoride, selenium, sulfides, vanadium & zinc, & are present at concentrations greater than ten times the universal treatment standard.

D. LAB PACK (INCINERATION) NOTIFICATION & CERTIFICATION

☐ This lab pack, as identified above on Line No(s). _____ is subject to the alternative treatment standards of 40 CFR §268.42(c).

"I certify under penalty of law that I personally have examined & am familiar with the waste & that the lab pack contains only wastes that have not been excluded under Appendix IV to 40 CFR Part 268 & that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR §268.42(c). I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment".

E. EXTENSIONS & VARIANCES

☐ This waste, as identified above on Line No(s). _____ is not prohibited from land disposal & is subject to a deadline extension or variance, e.g., treatability variance, case-by-case extension. Describe below any extension or variance that applies to this waste & include applicable dates:

Generator's Authorized Signature

Name & Title (Printed or Typed)

Date

LDR ATTACHMENT 1: EPA WASTE CODE LISTING

Note: If this form is necessary for notification purpose, it must be used in conjunction with the Notification form and/or Certification form.

Generator		Manifest					
Line #'s	EPA Code	Line #'s	EPA Code	Line #'s	EPA Code	Line #'s	EPA Code
"D" Characteristic Codes							
D001 ICW	D004	D009 HM (Organic)	D017	D026	D035		
D001 LQ (≥10% TOC)	D005	D009 HM (Inorganic)	D018	D027	D036		
D002	D006	D010	D019	D028	D037		
D003 EX	D006 CB	D011	D020	D029	D038		
D003 OR	D007	D012	D021	D030	D039		
D003 RC	D008	D013	D022	D031	D040		
D003 RS	D008 LB	D014	D023	D032	D041		
D003 UO	D009 LM-NRR	D015	D024	D033	D042		
D003 WR	D009 LM-RR	D016	D025	D034	D043		
"F" Listed Codes							
F001	F006	F011	F022	F027	F037		
F002	F007	F012	F023	F028	F038		
F003	F008	F019	F024	F032	F039		
F004	F009	F020	F025	F034			
F005	F010	F021	F026	F035			
"K" Listed Codes							
K001	K022	K043	K086	K109	K144		
K002	K023	K044	K087	K110	K145		
K003	K024	K045	K088	K111	K147		
K004	K025	K046	K093	K112	K148		
K005	K026	K047	K094	K113	K149		
K006 AN	K027	K048	K095	K114	K150		
K006 HY	K028	K049	K096	K115	K151		
K007	K029	K050	K097	K116	K156		
K008	K030	K051	K098	K117	K157		
K009	K031	K052	K099	K118	K158		
K010	K032	K060	K100	K123	K159		
K011	K033	K061	K101	K124	K161		
K013	K034	K062	K102	K125	K169		
K014	K035	K069 CS	K103	K126	K170		
K015	K036	K069 NCS	K104	K131	K171		
K016	K037	K071 RR	K105	K132	K172		
K017	K038	K071 NRR	K106 LM-RR				
K018	K039	K073	K106 LM-NRR	K136			
K019	K040	K083	K106 HM	K140			
K020	K041	K084	K107	K141			
K021	K042	K085	K108	K142			
"P" Listed Codes							
P001	P012	P024	P038	P049	P064		
P002	P013	P026	P039	P050	P065 NIRR		
P003	P014	P027	P040	P051	P065 LM-IR		
P004	P015	P028	P041	P054	P065 LM-RR		
P005	P016	P029	P042	P056	P065 HM-IRR		
P006	P017	P030	P043	P057	P066		
P007	P018	P031	P044	P058	P067		
P008	P020	P033	P045	P059	P068		
P009	P021	P034	P046	P060	P069		
P010	P022	P036	P047	P062	P070		
P011	P023	P037	P048	P063	P071		

Note: The Line #'s are from the Notification Form, not the hazardous waste manifest.

LDR ATTACHMENT 1: EPA WASTE CODE LISTING - PAGE 2 MANIFEST NO.:

Line #'s	EPA Code	Line #'s	EPA Code	Line #'s	EPA Code	Line #'s	EPA Code	Line #'s	EPA Code	Line #'s	EPA Code
	P072		P087		P097		P110		P122		P196
	P073		P088		P098		P111		P123		P197
	P074		P089		P099		P112		P127		P198
	P075		P092 NIRR		P101		P113		P128		P199
	P076		P092 LM-		P102		P114		P185		P201
	P077		P092 LM-RR		P103		P115		P188		P202
	P078		P092 HM-IRR		P104		P116		P189		P203
	P081		P093		P105		P118		P190		P204
	P082		P094		P106		P119		P191		P205
	P084		P095		P108		P120		P192		
	P085		P096		P109		P121		P194		
"U" Listed Codes											
	U001		U045		U089		U133		U174		U221
	U002		U046		U090		U134		U176		U222
	U003		U047		U091		U135		U177		U223
	U004		U048		U092		U136		U178		U225
	U005		U049		U093		U137		U179		U226
	U006		U050		U094		U138		U180		U227
	U007		U051		U095		U140		U181		U228
	U008		U052		U096		U141		U182		U234
	U009		U053		U097		U142		U183		U235
	U010		U055		U098		U143		U184		U236
	U011		U056		U099		U144		U185		U237
	U012		U057		U101		U145		U186		U238
	U014		U058		U102		U146		U187		U239
	U015		U059		U103		U147		U188		U240 (2,4-D)
	U016		U060		U105		U148		U189		U240 (2,4-D)
	U017		U061		U106		U149		U190		Salts)
	U018		U062		U107		U150		U191		U243
	U019		U063		U108		U151 LM-NRR		U192		U244
	U020		U064		U109		U151 LM-RR		U193		U246
	U021		U066		U110		U151 HM		U194		U247
	U022		U067		U111		U152		U196		U248
	U023		U068		U112		U153		U197		U249
	U024		U069		U113		U154		U200		U271
	U025		U070		U114		U155		U201		U278
	U026		U071		U115		U156		U202		U279
	U027		U072		U116		U157		U203		U280
	U028		U073		U117		U158		U204		U328
	U029		U074		U118		U159		U205		U353
	U030		U075		U119		U160		U206		U359
	U031		U076		U120		U161		U207		U364
	U032		U077		U121		U162		U208		U367
	U033		U078		U122		U163		U209		U372
	U034		U079		U123		U164		U210		U373
	U035		U080		U124		U165		U211		U387
	U036		U081		U125		U166		U213		U389
	U037		U082		U126		U167		U214		U394
	U038		U083		U127		U168		U215		U395
	U039		U084		U128		U169		U216		U404
	U041		U085		U129		U170		U217		U408
	U042		U086		U130		U171		U218		U409
	U043		U087		U131		U172		U219		U410
	U044		U088		U132		U173		U220		U411

Note: The Line #'s are from the Notification Form, not the hazardous waste manifest.

LDR ATTACHMENT 2: WASTE CONSTITUENT NOTIFICATION

Note: If this form is necessary for notification purposes, it must be used in conjunction with the Notification form and/or Certification form.

Generator _____			Manifest _____		
LDR Inorganic Constituents (40 CFR §268.48)					
Line #'s	Constituent	Legend #	Line #'s	Constituent	Legend #
_____	Antimony	246	_____	Cyanides (Total)	252
_____	Arsenic	247	_____	Cyanides (Amenable)	253
_____	Barium	248	_____	Fluoride ¹	254
_____	Beryllium	249	_____	Lead	255
_____	Cadmium	250	_____	Mercury - NWW from Retort	256
_____	Chromium (Total)	251	_____	Mercury - All others	257
_____	_____	_____	_____	Nickel	258
_____	_____	_____	_____	Selenium ¹	259
_____	_____	_____	_____	Silver	260
_____	_____	_____	_____	Sulfide ¹	261
_____	_____	_____	_____	Thallium	262
_____	_____	_____	_____	Vanadium ¹	263
LDR Organic Constituents (40 CFR §268.48)					
Line #'s	Constituent	Legend #	Line #'s	Constituent	Legend #
_____	Acenaphthene	49	_____	2-sec-Butyl-4,6- dinitrophenol (Dinoseb)	79
_____	Acenaphthylene	50	_____	Carbaryl *	270
_____	Acetone	51	_____	Carbenzadim *	271
_____	Acetonitrile	52	_____	Carbofuran *	272
_____	Acetophenone	53	_____	Carbofuran phenol *	273
_____	2-Acetylaminofluorene	54	_____	Carbon disulfide	80
_____	Acrolein	55	_____	Carbon tetrachloride	81
_____	Acrylamide *	56	_____	Carbosulfam *	274
_____	Acrylonitrile	57	_____	Chlordane (alpha & gamma isomers)	82
_____	Aldicarb sulfone *	265	_____	p-Chloroaniline	83
_____	Aldrin	58	_____	Chlorobenzene	84
_____	4-Aminobiphenyl	59	_____	Chlorobenzilate	85
_____	Aniline	60	_____	2-Chloro-1,3-butadiene	86
_____	Anthracene	61	_____	Chlorodibromomethane	87
_____	Aramite	62	_____	Chloroethane	88
_____	Barban *	266	_____	bis(2- Chloroethoxy) methane	89
_____	Bendiocarb *	267	_____	bis(2-Chloroethyl)ether	90
_____	Benomyl *	268	_____	2-Chloroethyl vinyl ether *	94
_____	Benz(a)anthracene	68	_____	Chloroform	91
_____	Benzal chloride *	69	_____	bis(2-Chloroisopropyl)ether	92
_____	Benzene	67	_____	p-Chloro-m-cresol	93
_____	Benzo(b)fluoranthene	70	_____	Chloromethane (Methyl chloride)	95
_____	Benzo(k) fluoranthene	71	_____	2-Chloronaphthalene	96
_____	Benzo(g,h,i) fluoranthene	72	_____	2-Chlorophenol	97
_____	Benzo(a)pyrene	73	_____	3-Chloropropylene	98
_____	alpha-BHC	63	_____	Chrysene	99
_____	beta-BHC	64	_____	o-Cresol	100
_____	delta-BHC	65	_____	m-Cresol	101
_____	gamma-BHC	66	_____	p-Cresol	102
_____	Bromodichloromethane	74	_____	m-Cumenyl methylcarbamate *	275
_____	Bromomethane (Methyl bromide)	75	_____	Cyclohexanone	103
_____	4-Bromophenyl phenyl ether	76	_____	o,p'-DDD	108
_____	n-Butyl alcohol	77	_____	p,p'-DDD	109
_____	Butyl benzyl phthalate	78	_____	o,p'-DDE	110
_____	Butylate *	269	_____	p,p'-DDE	111
_____	_____	_____	_____	o,p'-DDT	112
_____	_____	_____	_____	p,p'-DDT	113
_____	_____	_____	_____	Dibenz(a,h)anthracene	114
_____	_____	_____	_____	Dibenz(a,e)pyrene	115
_____	_____	_____	_____	1,2-Dibromo-3-chloropropane	104
_____	_____	_____	_____	1,2-Dibromoethane (Ethylene dibromide)	105
_____	_____	_____	_____	Dibromomethane	106
_____	_____	_____	_____	m-Dichlorobenzene	116
_____	_____	_____	_____	o-Dichlorobenzene	117
_____	_____	_____	_____	p-Dichlorobenzene	118
_____	_____	_____	_____	Dichlorodifluoromethane	119
_____	_____	_____	_____	1,1-Dichloroethane	120
_____	_____	_____	_____	1,2-Dichloroethane	121
_____	_____	_____	_____	1,1-Dichloroethylene	122
_____	_____	_____	_____	trans-1,2-Dichloroethylene	123
_____	_____	_____	_____	2,4-Dichlorophenol	124
_____	_____	_____	_____	2,6-Dichlorophenol	125
_____	_____	_____	_____	2,4-D (2,4-Dichlorophenoxy-acetic acid)	107
_____	_____	_____	_____	1,2-Dichloropropane	126
_____	_____	_____	_____	cis-1,3-Dichloropropylene	127
_____	_____	_____	_____	trans-1,3-Dichloropropylene	128
_____	_____	_____	_____	Dieldrin	129
_____	_____	_____	_____	Diethyl phthalate	130
_____	_____	_____	_____	p-Dimethylaminoazobenzene *	140
_____	_____	_____	_____	2,4-Dimethyl phenol	131
_____	_____	_____	_____	Dimethyl phthalate	132
_____	_____	_____	_____	Di-n-butyl phthalate	133
_____	_____	_____	_____	1,4-Dinitrobenzene	134
_____	_____	_____	_____	4,6-Dinitro-o-cresol	135
_____	_____	_____	_____	2,4-Dinitrophenol	136
_____	_____	_____	_____	2,4-Dinitrotoluene	137
_____	_____	_____	_____	2,6-Dinitrotoluene	138
_____	_____	_____	_____	Di-n-octyl phthalate	139
_____	_____	_____	_____	Di-n-propylnitrosamine	141
_____	_____	_____	_____	1,4-Dioxane	142

¹ Regulated under F039 only; not a UHC * Constituent not regulated under F039

Note: Line #'s are from the Notification Form, not the hazardous waste manifest.

LDR ATTACHMENT 2: WASTE CONSTITUENT NOTIFICATION - PAGE 2 MANIFEST NO.:

Line #'s	Constituent	Legend #	Line #'s	Constituent	Legend #	Line #'s	Constituent	Legend #
	Diphenylamine	143		Methyl ethyl ketone	184		Physostigmine salicylate *	287
	Diphenylnitrosamine	144		Methyl isobutyl ketone	185		Promecarb *	288
	1,2-Diphenylhydrazine	145		Methyl methacrylate	186		Pronamide *	218
	Disulfoton	146		Methyl methanesulfonate	187		Propham *	289
	Dithiocarbamates (total) *	276		Methyl parathion	188		Propoxur *	290
	Endosulfan I	147		3-Methylcholanthrene	181		Prosulfocarb *	291
	Endosulfan II	148		4,4-Methylene bis(2-chloro-aniline)	182		Pyrene	219
	Endosulfan sulfate	149		Methylene chloride	183		Pyridine	220
	Endrin	150		Metolcarb *	281		Safrole	221
	Endrin aldehyde	151		Mexacarbate *	282		Silvex (2,4,5-TP)	222
	EPTC	277		Molinate *	283		TCDDs (All Tetrachloro-dibenzo-n-dioxins)	225
	2-Ethoxyethanol **	32		Naphthalene	189		TCDFs (All Tetrachloro-dibenzo-furans)	226
	Ethyl acetate	152		2-Naphthylamine	190		1,2,4,5-Tetrachlorobenzene	224
	Ethyl benzene	154		o-Nitroaniline *	191		1,1,1,2-Tetrachloroethane	227
	Ethyl cyanide	153		p-Nitroaniline	192		1,1,2,2-Tetrachloroethane	228
	Ethyl ether	155		Nitrobenzene	193		Tetrachloroethylene	229
	Ethyl methacrylate	157		5-Nitro-o-toluidine	194		2,3,4,6-Tetrachlorophenol	230
	Ethylene oxide	158		o-Nitrophenol *	195		Thiodicarb *	292
	bis(2-Ethylhexyl) phthalate	156		p-Nitrophenol	196		Thiophanate-methyl *	293
	Famphur	159		2-Nitropropane **	33		Toluene	231
	Fluoranthene	160		N-Nitrosodiethylamine	197		Toxaphene	232
	Fluorene	161		N-Nitrosodimethylamine	198		Triallate *	294
	Formetanate hydrochloride *	278		N-Nitroso-di-n-butylamine	199		Tribromomethane (Bromoform)	233
	Heptachlor	162		N-Nitrosomethylethylamine	200		2,4,6-Tribromophenol	295
	Heptachlor epoxide	163		N-Nitrosomorpholine	201		1,2,4-Trichlorobenzene	234
	Hexachlorobenzene	164		N-Nitrosopiperidine	202		1,1,1-Trichloroethane	235
	Hexachlorobutadiene	165		N-Nitrosopyrrolidine	203		1,1,2-Trichloroethane	236
	Hexachlorocyclopentadiene	166		Oxamyl *	284		Trichloroethylene	237
	Hexachloroethane	169		Parathion	204		Trichloromonofluoromethane	238
	Hexachloropropylene	170		Total PCBs	205		2,4,5-Trichlorophenol	239
	HxCDDs (All Hexachloro-dibenzo-n-dioxins)	167		Pebulate *	285		2,4,6-Trichlorophenol	240
	HxCDFs (All Hexachloro-dibenzo-furans)	168		Pentachlorobenzene	206		2,4,5-T (2,4,5-Trichloro-nhenoxacetic acid)	223
	Indeno (1,2,3-c,d) pyrene	171		PeCDDs (All Pentachloro-dibenzo-n-dioxins)	207		1,2,3-Trichloropropane	241
	Iodomethane	172		PeCDFs (All Pentachloro-dibenzo-furans)	208		1,1,2-Trichloro-1,2,2-trifluoroethane	242
	Isobutyl alcohol	173		Pentachloroethane *	209		Triethylamine *	296
	Isodrin	174		Pentachloronitrobenzene	210		tris-(2,3-Dibromopropyl)	243
	Isosafrole	175		Pentachlorophenol	211		Vernolate *	297
	Kepone	176		Phenacetin	212		Vinyl chloride	244
	Methacrylonitrile	177		Phenanthrene	213		Xylenes- mixed isomers	245
	Methanol	178		Phenol	214			
	Methapyrilene	179		Phorate	215			
	Methiocarb *	279		Phthalic acid *	216			
	Methomyl *	280		Phthalic anhydride	217			
	Methoxychlor	180		Physostigmine *	286			

* Constituent not regulated under F039.

** F005 wastes containing no other F001-F005 solvents

Note: Line #'s are from the Notification Form, not the hazardous waste manifest



Waste Tracking Report

November 14, 2007

Page 1

CLHB Generator Id: EM9274 Emerald Recycling Services Seattle, WA 98134

EPA ID: WAD058367152 **Manifest Dates:** 01/01/06 to 11/14/07

CLHB Receiving Facility: Aragonite, UT Facility

State Mnfst. Doc. No: 000263593FLE
Work Order: DI1545027

Mnfst. Doc No:
Job Type: Bulk Shipment

Gen Sign Date: 07/30/07

Date Recvd: 08/01/07

Line: 1	Profile No:	CH144002B	Manifested Ctnrs:	1 TT	Total Qty:	28,960 K	Activity Date	Mgt Method Code
Drum No	Code	Qty	UOM	Disposal Site	Manifest Out			
13826279	DH3	57,500	LBS	Incinerated			08/07/07	H040



Certificate of Treatment/Disposal - Storage and Transfer

November 14, 2007

Page 2

Aragonite, UT Facility
11600 North Aptus Road
Grantsville, UT 84029
UTD981552177

Manifest No.	Recv. Date
000263593FLE	08/01/07

The above described waste, received at the Clean Harbors facility listed above pursuant to the manifest(s) listed above, has been treated and/or disposed of by Clean Harbors, or another licensed facility approved by Clean Harbors, in accordance with applicable federal and state laws and regulations. Any waste received by Clean Harbors and subsequently shipped to another licensed facility has been or shall be identified as being generated by Clean Harbors in accordance with 40CFR 264.71(c).

Under civil and criminal penalties of law for the making of submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Signed: Paul A. Mills

Date: 11/14/2007

Title: Senior Tracking Manager